



PTO/SB/08a (08-03)

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Substitute for form 1449A/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Substitute for form 1449A/PTO		<b>TRADEMARK</b>		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<i>Application Number</i>		10/815,727	
		<i>Filing Date</i>		April 2, 2004	
		<i>First Named Inventor</i>		John D. Brennan	
		<i>Art Unit</i>		1641	
		<i>Examiner Name</i>		Unsu Jung	
		<i>Attorney Docket Number</i>		3244-127	
Sheet	1	of	3		

## **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

Examiner Signature	/Unsu Jung/	Date Considered	08/23/2006
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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
				Application Number	10/815,727
				Filing Date	April 2, 2004
				First Named Inventor	John D. Brennan
				Art Unit	1641
				Examiner Name	Unsu Jung
Sheet	2	of	3	Attorney Docket Number	3244-127

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
GILL	1.	TOBAL, G., "Bio-Doped Nanocomposite Polymers: Sol-Gel Bioencapsulates", Chemistry of Materials, American Chemical Society, 2001, pp. 3404-3421, Vol. 13, No. 10.			
	2.	BESANGER, T., et al., "Characterization of Fluorescent Phospholipids Liposomes Entrapped in Sol-Gel Derived Silica", J. Phys. Chem. B. 2002, pp. 10535-10542, Vol. 106, No. 41. <b>(Abstract only)</b>			
	3.	GILL, I., et al., "Encapsulation of Biologicals Within Silicate, Siloxane, and Hybrid Sol-Gel Polymers: An efficient and generic approach", Journal of the American Chemical Society, 1998 pp. 8587-8598, Vol. 120.			
	4.	WEETALL, H., et al., "Bacteriorhodopsin Immobilized in Sol-Gel Glass", Biochimica et Biophysica Acta, 1993, pp. 211-213, Vol. 1142, No. 1.			
	5.	BESANGER, T., et al., "Ion Sensing and Inhibition Studies Using the Transmembrane Ion Channel Peptide Gramicidin A Entrapped in Sol-Gel-Derived Silica", Anal. Chem., 2003, pp. 1094-1101, Vol. 75.			
	6.	BESANGER, T., et al., "Entrapment of Highly Active Membrane-Bound Receptors in Macroporous Sol-Gel Derived Silica", Anal. Chem., 2004, pp. 6470-6475, Vol. 76.			
	7.	BRENNAN, J.D., "Optimizing Sol-Gel Entrapped Proteins for Bioanalytical Applications", Abstract, CSC Meeting, May 2004, London, Ontario.			
	8.	CRUZ-AGUADO, J., et al., "Sugar-Functionalized Silica Provides Enhanced Activity and Stability to Entrapped Enzymes", Abstract, CSC Meeting, May 2004, London, Ontario.			
	9.	RUPCICH, N., et al., "Development of DNA Aptamer-Microarrays Based Sol-Gel Derived Materials", Abstract, CSC Meeting, May 2004, London, Ontario.			
	10.	BESANGER, T.R., et al., "Entrapment of Highly Active Nicotinic Acetylcholine Receptor in Macroporous Sol-Gel Derived Materials", Abstract, CSC Meeting, May 2004, London, Ontario.			
↓	11	SUI, X., et al., "Effect of Covalently Tethered Sugars on the Properties of Enzymes Entrapped in Sol-Gel Derived Silica", Abstract, CSC Meeting, May 2004, London, Ontario.			

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Sheet

3

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**NON PATENT LITERATURE DOCUMENTS**

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UJ	12.	ZHANG, Z., et al., "The Biporous Structure of Monolithic Silica Columns Containing Entrapped Proteins", Abstract, Conference in Mexico, August 2002.	
UJ	13.	CHEN, Y., et al., "Syntheses of Sugar-Based Coupling Agents and Their Use in Preparing Protein-Friendly Silica Surfaces", Abstract, Conference in Mexico, August 2002.	
	14.	BESANGER, T., et al., "Toward the Entrapment of Stable Transmembrane Proteins: Characterization of Gramicidin Entrapped into Sol-Gel Derived Silicate Materials", Abstract, 65 <sup>th</sup> GSC Conference, Vancouver, BC, June 2002.	

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